PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference DF0648113P	FOR FURTHER ACTION	See item 4 below Priority date (day/month/year) 05 August 2005 (05.08.2005)				
International application No. PCT/CN2006/001153	International filing date (day/month/year) 30 May 2006 (30.05.2006)					
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant HUAWEI TECHNOLOGIES CO., LTD.						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).				
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.				
	In the attached sheets, any refere to the international preliminary r		the International Searching Authority should be read as a reference ter I) instead.		
3.	This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Вох №. П	Priority			
	Box No. III	Non-establishment of opin	nion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention	1		
	Box No. V		r Article 35(2) with regard to novelty, inventive step or industrial d explanations supporting such statement		
	Box No. VI	Certain documents cited			
	Box No. VII	Certain defects in the inte	rnational application		
	Box No. VIII	Certain observations on th	ne international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 05 February 2008 (05.02.2008)		
34, chemin des Colombettes		ombettes	Authorized officer Nora Lindner		
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Form PCT/IB/373 (January 2004)

Translation

PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORI'	гу		
То: 100083			PCT
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Zhichun Road, Haidian District, Beijing	,100083,P.R.China	(PCT Rule 43 bis.1)
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Applicant's or agent's file reference		FOR FURTHER ACTION	
DF0648113P			see paragraph 2 below
International application No.	International filing d	late (day/month/year)	Priority date (day/month/year)
PCT/CN2006/001153	30 May 2006	(30.05.2006)	05 August 2005 (05.08.2005)
International Patent Classification (IPC) or b		tion and IPC 4 (2006.01)i	
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Applicant	HUAWEI TECHNOLO	OGIES CO.,LTD ET-AI	•
This opinion contains indications relations	•	ems:	
Box No. I Basis of the opinion Box No.II Priority	on		
	nt of opinion with rega	rd to novelty, inventive	step and industrial applicability
Box No. IV Lack of unity of i	nvention		
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Box No.VI Certain document	anations supporting su	ch statement	
	the international appl	ication	
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2. FURTHER ACTION			
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International Preliminary Examining A	Authority ("IPEA") ex PEA and the chosen IP	xcept that this does n EA has notified the Inte	ot apply where the applicant chooses an emational Bureau under Rule 66.1bis(b) that
If this opinion is as provided above, co	onsidered to be a writ	tten opinion of the IPE. Iments, before the expir	A, the applicant is invited to submit to the ration of 3 months from the date of mailing pickeyer expires later.
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For further options, see Form PCT/ISA/	4 2 U.		
3. For further details, see notes to Form PC1	7/ISA/220.		
Name and mailing address of the ISA/CN	Date of completion	of this opinion	Authorized officer

Name and mailing address of the ISA/CN The State Intellectual Property Office, the P.R.China 6 Xitucheng Rd., Jimen Bridge, Haidian District, Beijing, China 100088 Facsimile No. 86-10-62019451

Date of completion of this opinion

29 August 2006 (29.08.2006)

Telephone No.

Form PCT/ISA/237(cover sheet)(April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CN2006/001153

Box	x No.	ĭ	Basis of the opinion
1.	Wit	n reg	ard to the language, this opinion has been established on the basis of:
		a ti	international application in the language in which it was filed ranslation of the international application into, which is the language of a translation nished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.			ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed a, this opinion has been established on the basis of:
	a.	type	of material a sequence listing table(s) related to the sequence listing
	b.	form	nat of material on paper in electronic form
	c.	time	of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search
3.	□.	furn	ldition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or ished, the required statements that the information in the subsequent or additional copies is identical to that in the ication as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	lition	al comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/CN2006/001153

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement Statement: Novelty (N) Claims 1-12 YES Claims NONE NO Inventive step (IS) Claims NONE YES Claims 1-12 NO Industrial applicability (IA) Claims 1-12 YES Claims NONE

- 2. Citations and explanations
 - D1: CN1412985A (23.04.2003)
 - D2: CN1553651A (08.12.2004)
 - D3: WO2005013050A2 (10.02.2005)
 - 1. Novelty

. . .

Claim 1 requests for a fast convergence method of point to point services, and claim 12 requests for a PE device used for fast convergence of point to point services. D1 discloses a method for determining at least one service route in MPLS network. D2 discloses a user facility double returning method based on multi-protocol label exchange. D3 discloses a method for implementing HaSP topology vpn. There are not the same technical proposals described in the above documents 1-3, so claims 1, 12 are novel compared with the prior art, and comply with the Article 33(2) PCT. And thus the corresponding dependent claims 2-11 have novelty under Article 33(2) PCT.

2. Inventive step

Claim 1 requests for a fast convergence method of point to point services, and D1 relates to a method for determining at least one service route in MPLS network, which discloses that (see in particular page 1 line 12-18): protection switch and fast route change are implemented by saving a backup path for protecting a main LSP to resist network fault, from which, it must detect whether LSP occurs a failure, i.e. detect the status of LSP to determine to switch or not. The only difference between the scheme of claim 1 and the disclosure of D1 is that it's implemented in PE CE double-attached to. However D2 describes a user facility double returning method based on multi-protocol label exchange, which discloses that (see page 1 line 15-22, fig 1): in the application of BGP/MPLS VPN, a CE device connects to two PEs at the same time. A skilled person considering D1 and D2 in combination would arrive at the subject-matter of claim 1 without exercising an inventive step. Therefore claim 1 does not involve an inventive step, and does not meet the criteria set out in Article 33(3) PCT.

Dependent claims 2-10 do not disclose any special technical features which the person skilled in the art would regard as more than a normal design option. The person skilled in the art would include these features in order to solve the problem posed. Therefore claims 2-10 do not meet the criteria set out in Article 33(3) PCT.

Claim 12 claims the responding PE of claim 1, so according to the same explanation, claim 12 does not involve an inventive step, and does not comply with Article 33(3) PCT.

3. Claims 1-12 have industrial applicability under Article 33(4) PCT, because the technology schemes claimed can be made or used in the industry.